

Questions TopicWise JAVA

OOPs

Q.1 What do you mean by Inheritance ? What are the advantages of Inheritance ?

Q.2 Which class is by default parent class of all java classes ? why ?

Q.3 How many types of Inheritance are possible explain each and which type of Inheritance not supported in java ?

Q.4 What do you mean by multiple Inheritance ?

Q.5 Why java doesn't support multiple inheritance?

Q.6 What is an ambiguity problem or diamond problem regarding inheritance in java ?

Q.7 Why does the ambiguity problem not arise in the case of interfaces in java ?

Q.8 What do you mean by a HAS-A relationship ?

Q.9 What do you mean by composition and aggregation in JAVA ?

Q.10 Give practical example of composition and aggregation in JAVA ?

Q. 11 What do you mean by method signature ?

Q.12 What do you mean by method overloading ?

Q. 13 What do you mean by method overriding ?

Q. 14 What do you mean by method hiding ?

Q. 15 Explain the differences between method overriding and method hiding in java ?

Q. 16 Explain the differences between method overloading and method overriding in java ?

Q. 17 What do you mean by polymorphism ? How many types of polymorphism are there ?

Q.20 What is the main purpose of the Constructor ?

Q. 23 What do you mean by default constructor ?

Q. 24 What are the differences between super(), this() and super,this ?

Q. 26 What do you mean by object type casting ?

Q. 27 Explain rules for object type casting ?

Q.28 What do you mean by Data hiding, Abstraction, Encapsulation in Java ?

Q.29 What is the purpose of the static block ?

Q.30 What is the purpose of the instance block ?

Q.31 What do you mean by coupling ?

Q.32 What do you mean by Cohesion ?

Language Fundamentals

Q.1 What do you mean by Identifiers ?

Q.2 Explain Rules of Java Identifiers ?

Q.3 Difference between float and double data type ?

Q.4 Why char data types takes 2 byte of memory in java ?

Q.5 What are the advantages and disadvantages of array ?

Q.7 What are the differences between instance and static variables ?

Q.8 What do you mean by the var-arg method ?

Q.9 What are the advantages of the var-arg method ?

Q.10 What changes can we perform on main() ?

Q.12 What do you mean by command line arguments ?

Exception Handling

Q.1_What do you mean by exception ?

Q.2 What is the main objective of Exception Handling ?

Q.3 What is the meaning of Exception Handling ?

Q.5 Which is the root class for Java Exception Hierarchy and why ?

Q.6 What are the differences between checked exceptions & unchecked exceptions ?

Q.7 What are the differences between partially checked exceptions & fully checked exceptions ?

Q.8 What is the purpose of try and catch block ?

Q.9 Explain about methods to print exception information to the console ?

Q.10 What is the main purpose of try with multiple catch blocks ?

Q.11 What is the main purpose and speciality of finally block ?

Q.13 What is the purpose of the throw keyword ?

Q.14 What is the purpose of the throws keyword ?

Q.15 How many types of exceptions are available in java ?

Q.16 Explain any 5 exceptions of java ?

Declaration & Access Modifiers

Q.1_How many classes a java program can contain ?

Q.2 What do you mean by fully qualified name and what is the problem in using a fully qualified name ?

Q.3 What is the purpose of import ?

Q.4 Explain types of import statement ?

Q.6 What do you mean by static import ?

Q. 7 What are the advantages and disadvantages of using static import ?

Q.8 What do you mean by package ?

Q.9 What do you mean by public modifier ?

Q.10 What do you mean by private modifier ?

Q.11 What do you mean by <default> modifier ?

Q.12 What do you mean by protected modifier ?

Q.13 What do you mean by final modifier ?

Q.14 Explain abstract class and abstract method ?

Q.15 What is the purpose of strictfp modifier ?

Q.16 What is the purpose of native modifier ?

Q.17 How many modifiers are applicable on outer class ?

Q.18 Which modifiers are applicable for local variables ?

Q.19 Which modifiers are applicable only for method ?

Q.20 Which modifiers are applicable only for variables ?

Q.21 On Constructors which modifiers are applicable?

Interface

Q.1_What do you mean by interface ?

Q.2 Explain about extends and implements keywords ?

Q.3 What is the purpose of import ?

Q.4 Explain about interface methods and interface variables ?

Q.5 Multiple Inheritance possible in java or not ?

Q.6 Why is multiple Inheritance not supported in classes but supported in Interfaces ?

Q.7 How many Interfaces a Java class can implement simultaneously ?

Q.8 What do you mean by marker Interface ?

Q.9 What do you mean by Adapter class ?

Q.10 What are the differences between abstract class & Interface ?

Q.11 What do you mean by default method in Interface ?

Q.12 What do you mean by static method in Interface ?

Java.lang package

Q.1 Explain about Object class?

Q.2 Explain about toString() ?

Q.3 What do you mean by hashCode ?

Q.4 Explain about equals() ?

Q.5 Explain the relation between == operator and equals() ?

Q.6 What are the differences between == operator and equals() ?

Q.7 What is the purpose of cloning ?

Q.8 What are the differences between shallow cloning and deep cloning ?

Q.9 What are the differences between String and StringBuffer ?

Q.10 Why is the String class object immutable ?

Q.11 What are the advantages and disadvantages of scp ?

Q.12 What are the differences between equals() and equalsIgnoreCase() ?

Q.13 What are the differences between StringBuffer and StringBuilder ?

Q.14 What do you mean by wrapper classes ?

Q.15 Which wrapper classes are not direct child classes of the Object class ?

Q.16 Which wrapper classes are direct child classes of the Object class ?

Q.17 What do you mean by auto boxing & auto unboxing ?

Garbage Collection

Q.1_What do you mean by Garbage Collection ?

Q.2 When an object is said to be eligible for GC ?

Q.3 Explain ways to make an object eligible for GC ?

Q.4 How can we request JVM to run GC ?

Q.5 Explain the purpose of finalize() ?

Q.6 What do you mean by memory leaks ?

Collection Framework

Q.1_What are the advantages and disadvantages of array ?

Q.2 What are the advantages of collection ?

Q.3 What are the differences between array & collection ?

**Q.4 What are the differences between add() and addAll()
method of Collection interface ?**

Q.5 What is the purpose of retainAll() of Collection interface ?

**Q.6 What are the differences between contains() and
containsAll() method of Collection interface ?**

**Q.7 What are the differences between Collection & Collections
?**

Q.8 Explain the properties of ArrayList ?

**Q.9 What is the relation between current capacity & new
capacity of ArrayList ?**

Q.10 What are the differences between ArrayList & Vector ?

Q.11 When ArrayList is the best choice ?

Q.12 Explain the properties of LinkedList ?

Q.13 When LinkedList is the best choice ?

Q.14 Explain the properties of Vector ?

Q.15 Explain the properties of Stack ?

Q.16 What are the differences between pop() and peek() of Stack class ?

Q.17 What do you mean by cursors & how many cursors are available in Java ?

Q.18 Explain the properties of the Enumeration cursor ?

Q.19 What are the limitations of the Enumeration cursor ?

Q.20 Explain the properties of the Iterator cursor ?

Q.21 What are the limitations of the Iterator cursor ?

Q.22 Explain the properties of the ListIterator cursor ?

Q.23 What are the limitations of the ListIterator cursor ?

Q.24 What are the differences among all the 3 cursors ?

Q.25 Explain the properties of HashSet ?

Q.27 What are the differences between HashSet & LinkedHashSet ?

Q.28 Explain the properties of TreeSet ?

Q.29 What are the differences between Comparable & Comparator ?

Q.30 What is the purpose of the Map interface ?

Q.32 Explain the properties of HashMap ?

Q.33 What are the differences between HashMap & Hashtable ?

Q.34 What are the differences between HashMap & LinkedHashMap ?

Q.35 What are the differences between HashMap & IdentityHashMap ?

Q.36 What are the differences between HashMap & WeakHashMap ?

Q.37 Explain the properties of TreeMap ?

Q.38 What is the main purpose of Generics ?

Q.39 What are the differences between ArrayList l=new ArrayList() and ArrayList<String> l=new ArrayList<String>() ?

Multi-Threading

Q.1 What do you mean by Multi-Tasking ?

Q.2 What are the differences between process based multitasking and thread based multitasking ?

Q.3 By How many ways can we create a Thread in Java ?

Q.4 What do you mean by Thread Scheduler ?

Q.5 What are the differences between t.start() & t.run() ?

Q.6 What is the importance of Thread class start() ?

Q.9 Explain Thread life cycle in Java ?

Q.10 How can we set and get the name of a thread in Java ?

Q.11 How can we get current executing thread object in Java ?

Q.12 What do you mean by Thread Priority In Java ?

Q.13 Explain the concept of default priority ?

Q.14 Explain the purpose of yield() ?

Q.15 Explain the purpose of join() ?

Q.16 Explain the purpose of sleep() ?

Q.17 What do you mean by synchronization ?

Q.18 What are the advantages & disadvantages of synchronization ?

Q.19 What do you mean by object level lock ?

Q.21 What is the purpose of synchronized block ?

Q.22 What do you mean by daemon thread ?

Q.23 What is the default daemon nature ?

Q.24 What do you mean by Inter Thread Communication ?

Q.25 What is the difference between notify() and notifyAll() ?

Q.26 What do you mean by deadlock ?

Q.27 What are the differences between deadlock & starvation ?